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Franco Vitaliano
Phone: 617 742 4422
Fax: 617 248 8886
Email: francov@vxm.com

Send to: USPTO	From: Franco Vitaliano
Attention: Technical Center 1600	Date: February 14, 2006
Fax number: 571 273 8300	Phone number: 617 742 4422

Total pages, including cover sheet: 7

Comments

Please find attached our response to the USPTO regarding
Disposition of Claims, Claims 1-68 in pending application No.
10/660,796, Applicants, Vitaliano, et al; Russell S. Negin, Examiner,
Art Unit 1631



Regards

Franco Vitaliano
4 Longfellow Place # 2105
Boston MA 02114 USA
Tel 617 742 4422
Fax 617 248 8886
francov@vxm.com

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Office Action Summary	Application No. 10/660,976		Applicant(s) VITALIANO ET AL.	
	Examiner Russell S. Negin		Art Unit 1631	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on ____.

2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-68 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) ☐ Claim(s) ____ is/are allowed.

6) ☐ Claim(s) ____ is/are rejected.

7) ☐ Claim(s) ____ is/are objected to.

8) ☒ Claim(s) 1-68 are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date ____.

4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date ____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: ____.

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DETAILED ACTION

Election/Restrictions

The applicant must elect one specie from each of the four categories listed below.

Specie Category #1: type of use of light source

Specie A: The laser light source is a regulated source of photons for use in quantum computing, quantum networks and quantum cryptography (claim 44)

Specie B: The laser light source is a therapeutic agent (claim 45)

Specie C: The laser light source is a diagnostic agent (claim 46)

Specie D: The laser light source is a sensor agent (claim 47)

Specie E: The laser light source is a prosthetic agent (claim 48)

Generic to #1: Claims 1-43, 49-67

Justification: Each classification of a laser light source would require a different and distinct use for the laser light with distinct applications. There would thus be undue search burden in searching all of the topics.

Specie Category #2: coating of the cage

Specie F: the cage is at least partially coated in a substantially reflective material (claim 54)

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Specie G: the cage is at least partially coated in a substantially non-reflective material (claim 56)

Specie H: the cage is at least partially metal coated (claim 58)

Generic to #2: Claims 1-53, 55, 57, 59-67

Justification: Each type of coating is distinct and requires its own search. A cage coated in substantially reflective material is the opposite of a cage coated in non-reflective material.

Specie Category #3: coating of the vesicle

Specie I: the vesicle is coated in at least a partially a reflective material (claim 55)

Specie J: the vesicle is coated in at least a partially a non-reflective material (claim 57)

Generic to #3: Claims 1-54, 56, 58-67

Justification: Each type of coating is distinct and requires its own search. A vesicle coated in substantially reflective material is the opposite of a cage coated in non-reflective material.

Specie Category #4: size of the cage

Specie K: the cage is greater than about one nanometer in diameter (claim 60)

Specie L: the cage is at least about 50 nanometers in diameter (claim 61)

Specie M: the cage is at least about 100 nanometers in diameter (claim 62)

Generic to #4: claims 1-59, 63-67

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Justification: Each range of cage size is distinct. Searching each cage size would require a search with undue burden, and a distinct search for each range of sizes.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, Ph.D., whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 7am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Ardin Marschel, Ph.D., Supervisory Patent Examiner, can be reached at (571) 272-0718.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

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Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

-RSN 1/19/06

RR 1/19/06

John S. Brusca 19 January 2006
JOHN S. BRUSCA, PH.D.
PRIMARY EXAMINER